

MIL-DTL-83513/28 Thru /33 Micro-D Connectors Straight PCB Connectors (CBS)



Micro-D
MIL-DTL-83513



Space-Saving — These connectors take up less room on the PC board. PC tail spacing is .075 inch (1.9mm), compared to .100 inch (2.54mm.).

Threaded Inserts — Stainless steel inserts are insert molded into plastic trays. These inserts provide a ground path from the PC board to the mating cable.

Solder-Dipped — Terminals are coated with SN63/Pb37 tin-lead solder for best solderability.

HOW TO ORDER M83513/22 THRU /27 STRAIGHT PCB CONNECGTORS

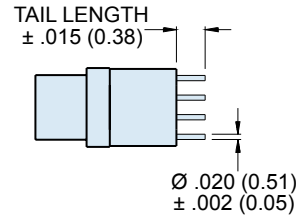
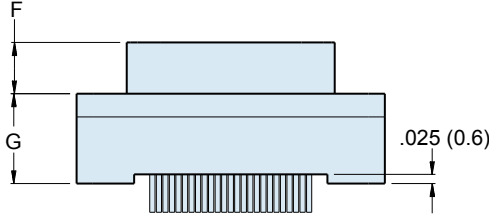
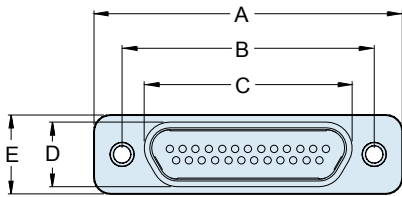
Spec Number	Slash Number- Shell Size	PC Tail Length	Shell Finish	Hardware Option	
M83513	Plug (Pin Contacts)		01 - .109 Inch (2.77 mm) 02 - .140 Inch (3.56 mm) 03 - .172 Inch (4.37 mm)	C - Cadmium N - Electroless Nickel P - Passivated SST	N - No Jackpost P - Jackposts Installed T - 2-56 Threaded Insert in Board Mount Hole (No Jackposts) W - 2-56 Threaded Insert in Board Mount Hole and Jackposts Installed U - 4-40 Threaded Insert in Board Mount Hole (No Jackposts) Y - 4-40 Threaded Insert in Board Mount Hole and Jackposts Installed (See "Hardware Options" below for Illustrations) Shell sizes A (9) through G (51) are #2-56 UNC-2 threads. Shell size H (100) is #4-40 UNC-2 threads.
	28-A - 9 Contacts	PC Tail Length ± .015 (0.38)			
	28-B - 15 Contacts				
	28-C - 21 Contacts				
	28-D - 25 Contacts				
	28-E - 31 Contacts				
	28-F - 37 Contacts				
	29-G - 51 Contacts				
	30-H - 100 Contacts				
	Receptacle (Socket Contacts)				
	31-A - 9 Contacts				
	31-B - 15 Contacts				
	31-C - 21 Contacts				
	31-D - 25 Contacts				
	31-E - 31 Contacts				
	31-F - 37 Contacts				
32-G - 51 Contacts					
33-H - 100 Contacts					
Sample Part Number					
M83513/	33-H	01	C	P	

HARDWARE OPTIONS

N	P	T	W
No Jackpost	Jackpost	Threaded Insert	Jackpost, Threaded Insert

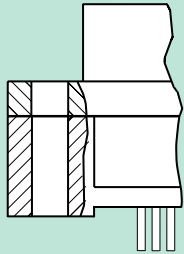


MIL-DTL-83513/28 Thru /33 Micro-D Connectors Straight PCB Connectors (CBS)



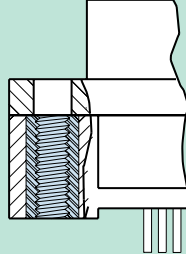
M83513/28 THRU 33 HARDWARE OPTIONS

HARDWARE OPTION N
NO JACKPOST, NO
THREADED INSERT



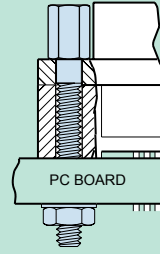
MTNG HOLE DIA.
9-51 CONTACTS
.096/.088 (2.44/2.24)
100 CONTACTS
.128/.122 (3.25/3.10)

**HARDWARE
OPTIONS T & U**
THREADED INSERT,
NO POST



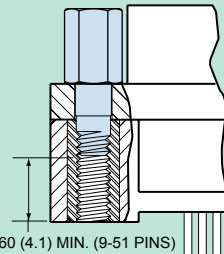
THREAD SIZE
9-51 CONTACTS # 2-56 UNC-2B
100 CONTACTS # 4-40 UNC-2B

HARDWARE OPTION P
JACKPOST AND THRU-HOLE



THREAD SIZE
9-51 CONTACTS # 2-56 UNC
100 CONTACTS # 4-40 UNC
**USE WITH .156 (3.96) MAX. PC
BOARD THICKNESS**

**HARDWARE
OPTIONS W & Y**
JACKPOST AND
THREADED INSERT



THREAD SIZE
9-51 CONTACTS #2-56 UNC
100 CONTACTS #4-40 UNC

DIMENSIONS

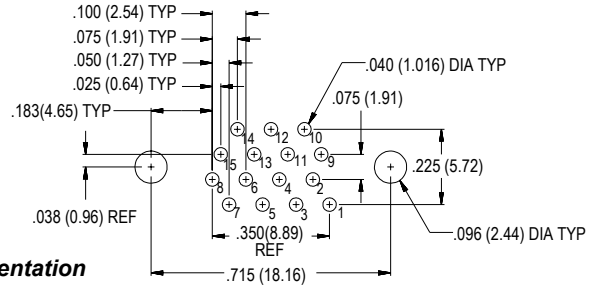
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.	
	In.	mm.	In. ±.005	mm. ±0.13	In.	mm.	In.	mm.	In.	mm.	In. ±.003	mm. ±0.08	In.	mm.
9P	.785	19.94	.565	14.35	.333	8.46	.185	4.70	.310	7.87	.183	4.65	.355	9.02
9S	.785	19.94	.565	14.35	.400	10.16	.253	6.43	.310	7.87	.195	4.95	.355	9.02
15P	.935	23.75	.715	18.16	.483	12.27	.185	4.70	.310	7.87	.183	4.65	.355	9.02
15S	.935	23.75	.715	18.16	.551	14.00	.253	6.43	.310	7.87	.195	4.95	.355	9.02
21P	1.085	27.56	.865	21.97	.633	16.08	.185	4.70	.310	7.87	.183	4.65	.355	9.02
21S	1.085	27.56	.865	21.97	.701	17.81	.253	6.43	.310	7.87	.195	4.95	.355	9.02
25P	1.185	30.01	.965	24.51	.733	18.62	.185	4.70	.310	7.87	.183	4.65	.355	9.02
25S	1.185	30.01	.965	24.51	.801	20.35	.253	6.43	.310	7.87	.195	4.95	.355	9.02
31P	1.335	33.91	1.115	28.32	.883	22.43	.185	4.70	.310	7.87	.183	4.65	.355	9.02
31S	1.335	33.91	1.115	28.32	.951	24.16	.253	6.43	.310	7.87	.195	4.95	.355	9.02
37P	1.485	37.72	1.265	32.13	1.033	26.24	.185	4.70	.310	7.87	.183	4.65	.355	9.02
37S	1.485	37.72	1.265	32.13	1.101	27.96	.253	6.43	.310	7.87	.195	4.95	.355	9.02
51P	1.435	36.45	1.215	30.86	.983	24.97	.228	5.79	.400	10.16	.183	4.65	.355	9.02
51S	1.435	36.45	1.215	30.86	1.051	26.70	.296	7.52	.400	10.16	.195	4.95	.355	9.02
100P	2.170	55.12	1.800	45.72	1.383	35.13	.271	6.88	.510	12.95	.183	4.65	.430	10.92
100S	2.170	55.12	1.800	45.72	1.451	36.86	.340	8.64	.510	12.95	.195	4.95	.430	10.92

M83513/28 THRU 30 PCB LAYOUTS – PIN CONNECTORS

Patterns shown are for connector mounting side of PC board.



9 PIN M83513/28-A

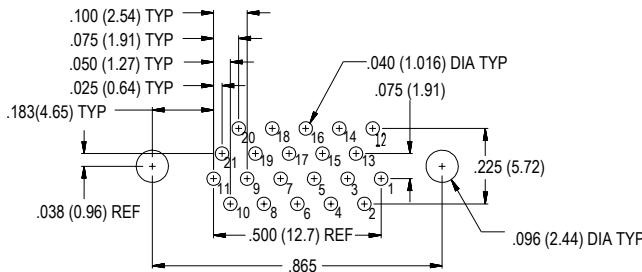


15 PIN M83513/28-B

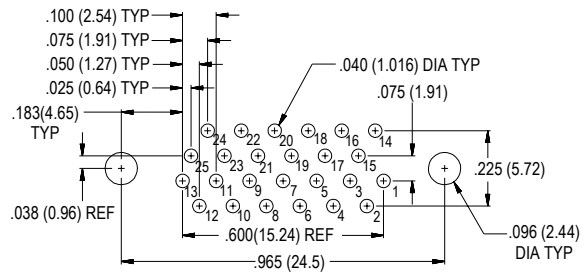
Connector Orientation



Pin #1



21 PIN M83513/28-C



25 PIN M83513/28-D



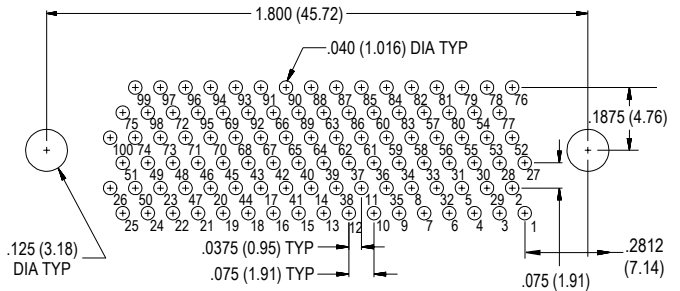
31 PIN M83513/28-E



37 PIN M83513/28-F



51 PIN M83513/29-G



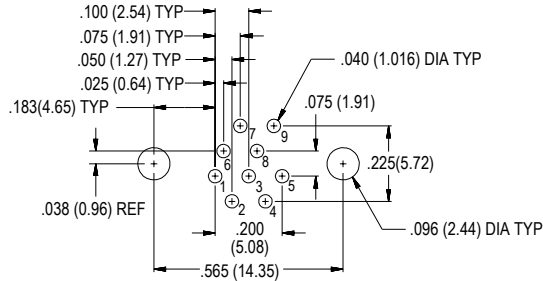
100 PIN M83513/30-H



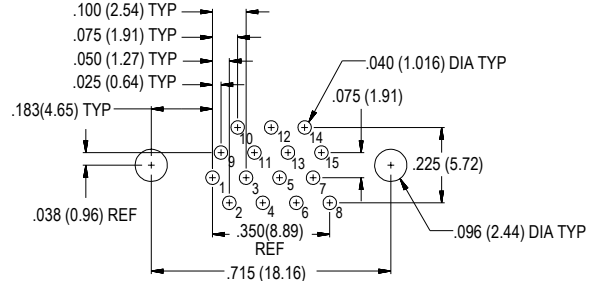
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MM83513/31 THRU /33 PCB LAYOUTS – SOCKET CONNECTORS

Patterns shown are for connector mounting side of PC board.

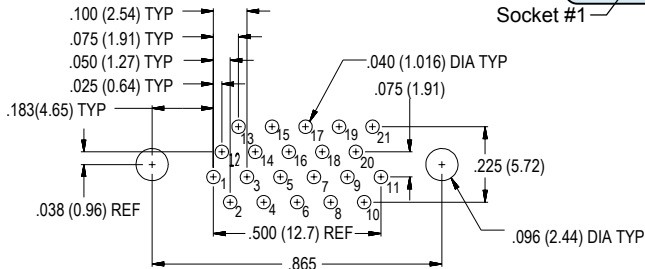


9 Socket M83513/31-A

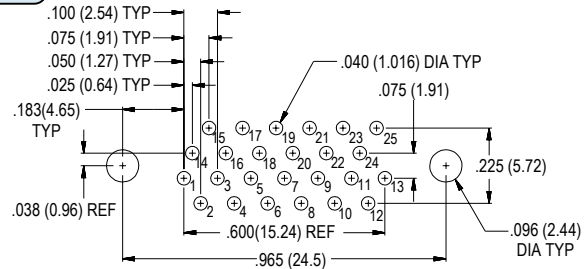


15 Socket M83513/31-B

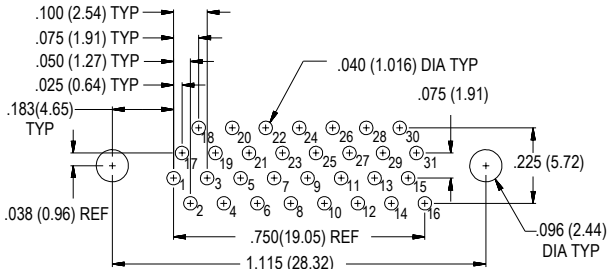
Connector Orientation



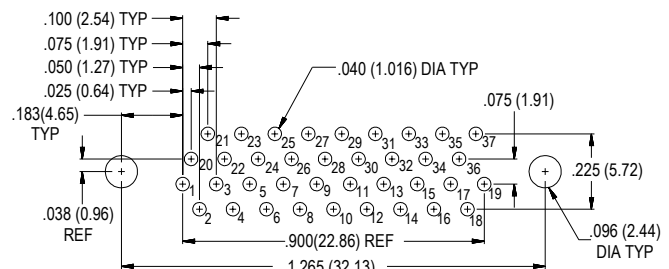
21 Socket M83513/31-C



25 Socket M83513/31-D



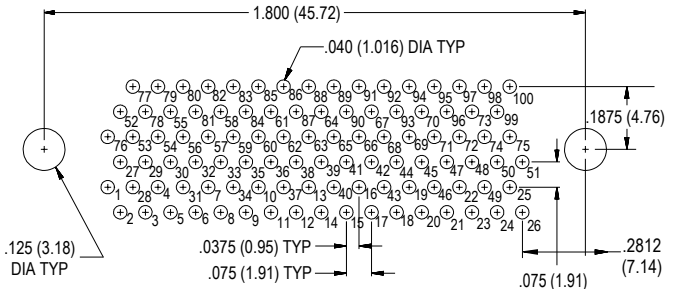
31 Socket M83513/31-E



37 Socket M83513/31-F



51 Socket M83513/32-G



100 Socket M83513/33-H